

# Material Safety Data Sheet

## Sesqui™ Sodium Sesquicarbonate

MSDS #: 533-96-0  
Revision Date: 2013-10-28  
Version 0.04



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200  
And Canadian Workplace Hazardous Materials Information System (WHMIS) requirements.

### 1. PRODUCT AND COMPANY IDENTIFICATION

|  |   |
|--|---|
| <b>Product name</b>  | <b>Sesqui™ Sodium Sesquicarbonate</b>   |
| <b>Synonyms</b>  | Trisodium Hydrogendicarbonate, Sesqui   |
| <b>Recommended use:</b>  | Industrial cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, pH adjustment, water treatment, food additive, food and dairy plant sanitizers  |
| <b>Manufacturer</b>  | <b>Emergency telephone number</b>   |
| FMC Wyoming Corporation<br>Alkali Chemicals Division<br>1735 Market Street<br>Philadelphia, PA 19103<br>Tel: +1 215 / 299 6000<br>E-Mail: msdsinfo@fmc.com | 1 307 / 872 2452 (Plant - Green River, WY)<br>1 303 / 595 9048 (Medical - U.S. - Call Collect)<br><br>For leak, fire, spill or accident emergencies, call:<br>1 800 / 424 9300 (CHEMTREC - U.S.A.)<br>1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries) |

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

White, odorless, needle-shaped particles  
Reacts with acids to release carbon dioxide and heat

#### **Potential health effects**

#### Acute Toxicity

|                   |  |
|-------------------|--|
| <b>Eyes</b>       | May cause irritation.  |
| <b>Skin</b>       | Prolonged or repeated contact may dry skin and cause irritation. |
| <b>Inhalation</b> | May cause irritation of respiratory tract.                       |

#### Chronic Toxicity

No known effect.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Ingredients**

| Chemical Name          | CAS-No   | Weight % |
|------------------------|----------|----------|
| Sodium Sesquicarbonate | 533-96-0 | 100      |

### 4. FIRST AID MEASURES

|              |   |
|--------------|---|
| Eye contact  | Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists. |
| Skin contact | Wash skin with soap and water. Get medical attention if irritation develops and persists.                                 |
| Inhalation   | Remove person to fresh air. If signs/symptoms continue, get medical attention.  |
| Ingestion    | Rinse mouth with water and afterwards drink plenty of water or milk. Get medical attention if symptoms occur.             |

## 5. FIRE-FIGHTING MEASURES

|  |   |
|--|---|
| Flammable properties                       | Not combustible.  |
| Flash Point                                | Not combustible   |
| Suitable extinguishing media               | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Hazardous combustion products              | Fumes of sodium oxide.  |
| <b>Explosion Data</b>                      |   |
| Sensitivity to Mechanical Impact           | Not sensitive.  |
| Sensitivity to Static Discharge            | Not sensitive.  |
| Specific hazards arising from the chemical | None in particular.   |

|      |                 |                |             |                   |
|------|-----------------|----------------|-------------|-------------------|
| NFPA | Health Hazard 1 | Flammability 0 | Stability 0 | Special Hazards - |
|------|-----------------|----------------|-------------|-------------------|

## 6. ACCIDENTAL RELEASE MEASURES

|                         |  |
|-------------------------|--|
| Personal precautions    | Sweep up to prevent slipping hazard. For personal protection see section 8.  |
| Methods for containment | Vacuum or shovel waste into a drum and label contents for disposal. Avoid dust formation.  |
| Methods for cleaning up | Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal. Dispose of waste as indicated in Section 13. |

## 7. HANDLING AND STORAGE

|          |  |
|----------|--|
| Handling | Keep away from incompatible products (acids). Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Reference to other sections. |
| Storage  | Store in original container. Keep in a dry place. Keep in properly labeled containers. Keep container tightly closed.  |

## 8. Exposure controls/personal protection

|                                       |  |
|---------------------------------------|--|
| <b>Exposure guidelines</b>            | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Local nuisance dust standards apply. |
| <b>Occupational exposure controls</b> |  |
| Engineering measures                  | Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.  |

|                                 |   |
|---------------------------------|---|
| <b>Respiratory protection</b>   | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| <b>Eye/face protection</b>      | Safety glasses with side-shields  |
| <b>Skin and body protection</b> | Wear suitable protective clothing. Protective shoes or boots.   |
| <b>Hand protection</b>          | Protective gloves   |

|                         |   |
|-------------------------|---|
| <b>Hygiene measures</b> | Handle in accordance with good industrial hygiene and safety practice Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. |
|-------------------------|---|

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                  |  |
|----------------------------------|--|
| <b>Appearance</b>                | White, odorless, needle-shaped particles |
| <b>Color</b>                     | white to off white                       |
| <b>Physical state</b>            | solid                                    |
| <b>Odor</b>                      | odorless                                 |
| <b>Odor Threshold</b>            | Not applicable                           |
| <b>pH</b>                        | 9.9 (1% solution)                        |
| <b>Melting Point/Range</b>       | Decomposes on heating. (about 275 ° C)   |
| <b>Freezing point</b>            | No information available                 |
| <b>Boiling Point/Range</b>       | Not applicable                           |
| <b>Flash Point</b>               | Not combustible                          |
| <b>Evaporation rate</b>          | Not applicable                           |
| <b>Flammable properties</b>      | Not combustible                          |
| <b>Oxidizing properties</b>      | Non-oxidizing                            |
| <b>Vapor pressure</b>            | No information available                 |
| <b>Vapor density</b>             | Not applicable                           |
| <b>Specific Gravity</b>          | 2.12                                     |
| <b>Bulk density</b>              | 0.74 g/cm <sup>3</sup>                   |
| <b>Water solubility</b>          | 17.1 % @ 25 °C                           |
| <b>Percent volatile</b>          | No information available                 |
| <b>Partition coefficient:</b>    | Not applicable                           |
| <b>Viscosity</b>                 | No information available                 |
| <b>Decomposition Temperature</b> | 135 °C                                   |
| <b>Autoignition Temperature</b>  | Not combustible                          |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Stability</b>                        | Stable.                                  |
| <b>Conditions to avoid</b>              | Avoid contact with acids                 |
| <b>Materials to avoid</b>               | Acids                                    |
| <b>Hazardous decomposition products</b> | Carbon dioxide (CO <sub>2</sub> ).       |
| <b>Hazardous polymerization</b>         | Hazardous polymerization does not occur. |
| <b>Hazardous reactions</b>              | None under normal processing.            |

## 11. TOXICOLOGICAL INFORMATION

### Acute effects

|                       |                         |
|-----------------------|-------------------------|
| <b>Eye irritation</b> | Non-irritating (rabbit) |
|-----------------------|-------------------------|

|                         |                             |
|-------------------------|-----------------------------|
| Skin irritation         | Non-irritating (rabbit)     |
| LD50 Oral               | > 2800 mg/kg (Rat)          |
| LD50 Dermal             | No information available    |
| LC50 Inhalation:        | > 5.03 mg/L 4 hr (Rat)      |
| Sensitization           | Non-sensitizing, guinea pig |
| <u>Chronic Toxicity</u> |                             |
| Chronic Toxicity        | No known effect.            |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Not expected to have significant environmental effects

|                               |  |
|-------------------------------|--|
| Persistence and degradability | Biodegradability does not pertain to inorganic substances. |
| Bioaccumulation               | Does not bioaccumulate.                                    |
| Mobility                      | Dissociates into ions.                                     |
| Other adverse effects         | No information available                                   |

## 13. DISPOSAL CONSIDERATIONS

|                        |   |
|------------------------|---|
| Waste disposal methods | This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. |
| Contaminated packaging | Dispose of in accordance with local regulations.  |

## 14. TRANSPORT INFORMATION

|                  |               |
|------------------|---------------|
| <u>DOT</u>       | not regulated |
| <u>TDG</u>       | not regulated |
| <u>ICAO/IATA</u> | not regulated |
| <u>IMDG/IMO</u>  | not regulated |

## 15. REGULATORY INFORMATION

### International Inventories

|   |          |
|---|----------|
| TSCA Inventory (United States of America) | Complies |
| DSL (Canada)                              | Complies |
| NDSL (Canada)                             | Complies |
| EINECS/ELINCS (Europe)                    | Complies |
| ENCS (Japan)                              | Complies |
| IECSC (China)                             | Complies |

## Sesqui™ Sodium Sesquicarbonate

**MSDS #:** 533-96-0  
**Revision Date:** 2013-10-28  
**Version** 0.04

|                            |          |
|----------------------------|----------|
| <b>KECL (Korea)</b>        | Complies |
| <b>PICCS (Philippines)</b> | Complies |
| <b>AICS (Australia)</b>    | Complies |
| <b>NZIoC (New Zealand)</b> | Complies |

### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

|  |    |
|--|----|
| <b>Acute Health Hazard</b>               | no |
| <b>Chronic Health Hazard</b>             | no |
| <b>Fire Hazard</b>                       | no |
| <b>Sudden Release of Pressure Hazard</b> | no |
| <b>Reactive Hazard</b>                   | no |

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **International Regulations**

**Mexico - Grade** Slight risk, Grade 1

#### **Canada**

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.**

#### **WHMIS Hazard Class**

Non-controlled

**16. OTHER INFORMATION**

|      |                 |                |             |                       |
|------|-----------------|----------------|-------------|-----------------------|
| HMIS | Health Hazard 1 | Flammability 0 | Stability 0 | Special precautions - |
|------|-----------------|----------------|-------------|-----------------------|

**NFPA/HMIS Ratings Legend**

Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

**Product Certifications**

This product meets the chemical testing specifications defined in the Food Chemicals Codex (FCC), 8th Edition.

This product is certified to NSF/ANSI Standard 60 for use in drinking water treatment at the specified maximum use limit. The MUL (maximum use level) for sodium sesquicarbonate is 100 mg/L under NSF/ANSI Standard 60.



**Revision Date:** 2013-10-28  
**Reason for revision:** (M)SDS sections updated. 16.

**Disclaimer**

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of FMC Corporation, FMC corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

**Prepared By**

FMC Corporation  
FMC Logo - Trademark of FMC Corporation

© 2013 FMC Corporation. All Rights Reserved.  
**End of Material Safety Data Sheet**